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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/628,332

07/29/2003

Hayato Nakao

0124/0011

6078

21395

7590

09/07/2005

LOUIS WOO

LAW OFFICE OF LOUIS WOO

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ALEXANDRIA, VA 22314

EXAMINER

NGUYEN, HAU H

ART UNIT

PAPER NUMBER

2676

DATE MAILED: 09/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/628,332	Applicant(s) NAKAO, HAYATO	
	Examiner Hau H. Nguyen	Art Unit 2676	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 July 2003.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-3 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-3 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/29/2003</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Iourcha et al. (U.S. Patent No. 6,304,268).

Referring to claims 1-3, as shown in Figs. 1 and 2, Iourcha et al. teach an image processing system comprising:

a first means dividing an image into two-dimensional blocks 206 (col. 5, lines 1-10);

each block is identified by a reference number (col. 12, lines 42-67, and col. 13, lines 1-4) (a second means);

a third means for generating MIP maps with different resolutions as shown in Fig. 1, wherein level 102 having the full size resolution (col. 5, lines 50-58);

a (second) memory 804 storing data representative of the MIP maps generated by the third means, which is transferred from a first memory 802 (Fig. 8, col. 10, lines 4-10);

as shown in Fig. 3, Iourcha et al. teach a fourth means for receiving polygon data 302 representing on-screen position, depth value, color values and correspondence between the polygon and positions of pixels of a two-dimensional image to be applied to the polygon (col. 6, lines 1-22, and col. 5, lines 15-25 for polygon data).

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calculating the block ID number corresponding to a desired MIP map applied to the polygon, an intra-MIP-map block position of the desired MIP map, and a resolution of the desired MIP map (a fifth means), and retrieving these data from the memory (sixth means) is illustrated in Figs. 4-7.

calculating a luminance of each pixel in a final image (seventh means) and outputting the results of the calculated pixel to the frame buffer (eight means) is carried out by the pixel processing 806 (Fig. 8, and col. 10, lines 39-60).

Iourcha et al. further teach texture mapping is rendered on a pixel-by-pixel basis as shown in Fig. 16.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

Dawson (U.S. Patent No. 6,791,561) teaches a method for applying MIP map to the input digitized video.

Migdal et al. (U.S. Patent No. 6,417,860) teach a method for texture MIP mapping wherein, texel data relevant to a display image is stored, accessed, and updated efficiently in a clip-map in texture memory.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hau H. Nguyen whose telephone number is: 571-272-7787. The examiner can normally be reached on MON-FRI from 8:30-5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Bella can be reached on 571-272-7778.

The fax number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system contact the Electronic Business Center (EBC) at 866-2 17-9197 (toll-free).

H. Nguyen

08/30/2005

A handwritten signature in black ink, appearing to read "Matthew Luu", with a stylized flourish at the end.

MATTHEW LUU
PRIMARY EXAMINER